StarlinkVoice

Voice and E-Call Support Tracking Device

StarLink Voice is a highly advanced tracking device device with the ability to initiate and answer voice calls.

StarLink Voice comes with:

- Embedded GPS-GSM antenna
- Quad band GSM modem
- GPS/GLONASS module
- GSM/GPRS jamming detection with text alert feature

The **StarLink Voice** features integrated hands-free capabilities that allows the driver to communicate with a control center and vice versa.

StarLink Voice offers a "one-stop platform" incorporating:

- 12V/24V operation
- Embedded 3G and GPS antennas for easy installation
- Accident detection (using CANalog or eSafe accessories)
- During accident event - Automatically generated voice call to predefined phone number
  (Accident identification using CANalog or eSafe accessories)
- Full duplex voice calls
- Ringer and speaker control
- Silent monitoring support while speaker is muted
- Comprehensive I/O with a unique 2-way serial communication port for fast and simple connectivity with ERM's wide variety of accessories:
  - Garmin PND device handshake
  - FMS J1939/1708 (eData, CANalog, eCAN)
  - Fuel adaptor (eFuel)
  - Driver behavior and BlackBox (eSafe)
  - Security and Immobilizing system (LCA, eCut)

- Highly configurable functionality
- Two-way voice enable
- Callback request supported
- Volume, ringer and speaker control
- E-Call support (using CANalog / eSafe accessories to identify impact)
- Microphone and speaker kit
- 2G Quad Band modem
- GPS/GLONASS 99 channels location module
- Embedded Cellular and GPS antennas
- Comprehensive I/O, input and output ports
- Dedicated single wire com port, enabling the use of ERM's wide range of accessories
- GPRS and/or text alerts
- Self-tracking mode
- Internal backup battery
- Enhanced battery management
- Reduced size for quick and easy installation
- Home/Roaming management
- Geo-Fence management and alert
- Remote immobilizing capabilities
- Configurable speed alert
- Immobilizer output

- Panic button support
- Keep-alive mechanism
- OLP (Output Logic Programming) for complex output signal generation
- Remote vehicle shutdown (using eCut immobilizing system or relay)
- Vehicle battery diagnostic: charge, voltage and life (i.e.: SoH)
- Vehicle starter diagnostic: start time and grading
- Built-in data logger: 10,000 records (up to 20,000 optional)

Technical Specifications

Hardware

GSM	Quad-Band 900/1800/850/1900 + Optimized antenna
Location	MTK chipset, 99 channels, GPS/GLONASS, Active antenna, Sensitivity -165 dB, NMEA0183 acquisition (normal): cold 34s, warm 34s, hot 1s, accuracy: 2.5m CEP + Embedded optimized antenna
Communication	TCP/IP over GPRS/UMTS/EDGE/HSPA, text messages
Connectors	10-pin Molex connector
Input ports	1 inputs for general use, Additional I/Os with external HUB/junction box
Output ports	1 outputs for general use, active low, 1A
I/O Ports	2 multi-purpose I/Os
Analogs ports	2 inputs using an external adaptor 0-12V and 0-5V (optional using EDA Analog)
Dedicated port	Ignition port, one wire data wire for ERM accessories (eNet protocol)
Power Supply	9-32VDC, 20-30mA, Low power mode (GPS off) < 10mA, Power save mode (Standby) < 3.0mA (average), Speaker and Microphone < 0.5A
Back up battery	Rechargeable, 3.6V, 750mAh (Li-Poly or Li-ion),
Car interface	Ignition On/Off, Engine On/Off (by voltage), VSS, CANBUS (optional using eData/CANalog/eCAN)
Configuration/ Firmware Update	OTA/Via Standard PC USB Port, parameters setup, software programming
Data Logger	10,000 messages (up to 20,000 optional)

Environment

Operating temperature	-20 to 70°C
Storage temperature	-40 to 85°C
Dimensions	9.2cm x 6.5cm x 2.8cm
Weight (NET)	120g
Durability	IP64
Max. relative humidity	90+/-5%
Certifications	CE, FCC, PTCRB, IC

Software tools and application

StarLink Monitor:	local row data monitor and configuration
Message Builder:	StarLink configuration builder for diagnostic

FC CE ISO9001 CERTIFIED